



## **DLR – DAAD Fellowships**

### **Fellowship No. 551**

- Research Area :** Space
- Research Topic:** **Granular Light Scattering in Zero and Reduced Gravity**
- DLR Institute:** Institute of Materials Physics in Space, DLR Cologne, Germany
- Position:** Postdoctoral Fellow
- Openings:** 1
- Job Specification:** Light scattering from granular media allows the observation of dynamics inside agitated samples. For granular media in zero gravity, monitoring the dynamics is particularly interesting as the states and dynamics accessible are different from those measured on ground. Based on existing equipment in the laboratory and in space, contributions shall be made to fundamental and applied questions in granular scattering. New schemes of measurement shall be devised, such as the utilization of Terahertz radiation as well as the combination of light scattering with other techniques, i.e., rheology. Different particle systems as well as agitation methods shall be investigated and optimized. Data analysis and the publication in international scientific journals shall complete the tasks.
- Required Qualification:** PhD in physics or related field, experience in light-scattering techniques
- Advantageous Skills:** Soft matter experiments; experiments in low and zero gravity; programming and data analysis; experiments on granular matter
- English competence:** See requirements on [www.daad.de/dlr](http://www.daad.de/dlr)  
**Fluent in speaking and writing**
- Earliest Start Date:** As soon as possible

**Application Deadline:** Until position filled

**Further Information:** [matthias.sperl@dlr.de](mailto:matthias.sperl@dlr.de)  
[www.dlr.de/mp](http://www.dlr.de/mp)  
<http://www.dlr.de>  
<http://www.daad.de/dlr>